

Title (en)

SYSTEMS AND METHODS FOR CONTROLLING A GAS TURBINE DRIVE TRAIN

Title (de)

SYSTEME UND VERFAHREN ZUM STEUERN EINES ANTRIEBSSTRANGS EINER GASTURBINE

Title (fr)

SYSTÈMES ET PROCÉDÉS DE CONTRÔLE D'UN ENSEMBLE DE TRANSMISSION D'UNE TURBINE À GAZ

Publication

**EP 2388443 A2 20111123 (EN)**

Application

**EP 11166727 A 20110519**

Priority

US 78466710 A 20100521

Abstract (en)

Certain embodiments of the invention may include systems and methods for controlling an integrated drive train. According to an example embodiment of the invention, a method for controlling a gas turbine drive train (100) includes measuring speed (311) associated with the drive train (100), controlling fuel flow to a turbine (328) based at least in part on a speed command (506) and the measured speed (311), controlling one or more guide vanes associated with a torque converter (326) based at least in part on the speed command (506) and an expected power output (514) of the torque converter (326), and selectively coordinating respective torque contributions from the torque converter (326) and the turbine (328).

IPC 8 full level

**F01D 17/16** (2006.01); **F02C 9/26** (2006.01)

CPC (source: EP US)

**F01D 15/08** (2013.01 - EP US); **F01D 15/12** (2013.01 - EP US); **F02C 9/28** (2013.01 - EP US); **F02C 9/48** (2013.01 - EP US); **F05D 2270/052** (2013.01 - EP US); **F05D 2270/06** (2013.01 - EP US); **F05D 2270/304** (2013.01 - EP US)

Cited by

CN110344945A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2388443 A2 20111123**; **EP 2388443 A3 20170726**; CN 102322356 A 20120118; CN 102322356 B 20140820; JP 2011247256 A 20111208; JP 5898415 B2 20160406; US 2011288731 A1 20111124; US 8355855 B2 20130115

DOCDB simple family (application)

**EP 11166727 A 20110519**; CN 201110147374 A 20110520; JP 2011111934 A 20110519; US 78466710 A 20100521